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SOURCE Newspapers and circular as indicated

NEW INSTRUMENTS AID METALLURGISTS, GEOLOGISTS, METEOROLOGISTS

TO PRODUCE NEW ELECTRONOGRAPH -- Moscow, Moskovskiy Komsomlets, 25 Mar 51

A new-model electronograph, designed by the State Optical Institute, has recently been tested, and is slated for mass production. Utilizing electronic rays, the instrument greatly surpasses in quality all others of its kind, both domestic and foreign.

Radiograph and electronograph analyses have facilitated rapid advances in metallurgy and the physics of solids, especially in the study of electrical processing of steel and the analysis of the physical and chemical properties of rubber.

TEST WELDED SEAMS WITH GAMMA RAYS -- Moscow, Circular of the All-Union Institute for Technical Information, 27 Jan 51

[This circular describes technical pamphlets and collections of reports on recent inventions published by the Institute for Technical Information. The description of one such pamphlet follows.]

Describes the methods used by certain plants in testing the quality of castings and welded seams by means of gamma rays. Includes the results of experimental work in increasing the sensitivity of gamma photographs to expose the slightest defects in steel, and in increasing the sensitivity of the photographs when applying the rays to Duralumin. Describes exposure conditions for getting gamma-ray photographs of steel and Duralumin; gives graphs for determining exposure conditions when using domestic photographic materials, and data on the preparation of radioactive isotopes of radium.

- 1 -

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NEW MAGNETOMETERS MORE ACCURATE -- Leningradskaya Pravda, 27 Apr 51

On the basis of field tests, the Leningrad Geologorazvedka (Geological Prospecting) Plant is preparing to establish series production of the M-7-K magnetometer. The M-7-K is easier to carry, lighter, and more accurate than former models.

In observance of May Day, the plant has pledged to build an experimental model of the new 12-loop oscillograph.

INSTRUMENTS GIVE RAPID QUANTITATIVE ANALYSES -- Frunze, Sovetskaya Kirgiziya, 28 Mar 51

The Leningrad Optics and Mechanics Plant of the Russkiye Samosvely Trust has completed the first series of instruments for the high-speed determination of ore and mineral concentrations in rock. An exact quantitative analysis of the ore can be made by these devices within an hour.

CONSTRUCTION PROJECTS GET EARTH SAMPLERS -- Yerevan, Kommunist, 27 Jul 51

The Moscow Burovaya Tekhnika Plant has sent to the great construction projects a number of devices for taking earth samples and measuring moisture content at various depths.

TO PRODUCE WIND GAUGES -- Riga, Sovetskaya Latvija, 22 Mar 51

The Technical Division of the Riga Gidrometpribor Plant has completed preparations for the production of wind gauges. The first ten of these instruments will be put out early in April.

SHIP INSTRUMENTS TO CONSTRUCTION PROJECTS -- Tbilisi, Zarya Vostoka, 6 Jul 51

The Tbilisi Gidrometpribor Plant has shipped a consignment of hydrological, aerological, and meteorological instruments to the sites of the great construction projects.

Tbilisi, Zarya Vostoka, 12 Jul 51

The Tbilisi Gidrometpribor Plant is series-producing actinometers for the great construction projects.

Tbilisi, Zarya Vostoka, 5 Apr 51

The Tbilisi Gidrometpribor Plant has received an order from the Stalingrad GES project for an instrument to measure the speed and amount of water flow, and for a bathometer and various other instruments.

SUPERSONIC DEVICE DETERMINES HARDNESS OF CONCRETE -- Kishinev, Sovetskaya Moldaviya, 31 Mar 51

The acoustics laboratory of the Scientific Research Institute of Physics is developing a new supersonic device for use at the sites of the Stalingrad and Kuybyshev GES, and at the Main Turkmen and North Crimean canals.

- 2 -

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The device will employ supersonic waves to determine the hardness and density of concrete structures such as are found in dams and bridges. Work on the new device is being conducted under the direction of Professor Rzhevkin of Moscow State University.

SEND TESTING UNITS TO CANAL BUILDERS -- Tallin, Sovetskaya Estoniya, 7 Jun 51

The Usman' Machinery Plant has sent the builders of the Main Turkmen Canal some units for testing construction sand. It has also sent cement-testing units to some of the great construction projects.

PRODUCE ABOVE-PLAN SCALES -- Tallin, Sovetskaya Estoniya, 20 Mar 51

The Tallin Weighing and Measuring Instruments Plant has exceeded the February quota for the production of scales, 100-liter storage drums, and water meters.

MEASURING DEVICE SAVES TIME -- Leningradskaya Pravda, 7 Jul 51

A technician at the Stroganovo Drushnaya Gorka Glass Plant invented a semiautomatic electrical device which measures the volume of flasks, measuring glasses, and other glass vessels. The device is cutting down the time of measuring operations 8-10 times, and increasing their accuracy.

CURRENT LIMITER TO REPLACE FUSE -- Tbilisi, Zarya Vostoka, 31 Mar 51

The Tbilisi Precision Instruments Plant has put out an experimental model of a new automatic current limiter, designed to replace fuses in living quarters. The plant will produce 30,000 of these devices this year.

PRODUCE ITEMS FOR MOSCOW STATE UNIVERSITY -- Leningradskaya Pravda, 14 Mar 51

The Leningrad Elektrodale Plant No 10, which produces electric heating devices and electron tube equipment for laboratories, is now working on an order from the Moscow State University for 24 types of instruments and other devices.

Among the items on order are electric flask heaters, electric funnels for hot filtering of liquids, thermostats, and a new device for demonstrating the conversion of kinetic energy from electrons into mechanical energy.

DEVICE TO MEASURE EXCAVATOR EFFICIENCY -- Moscow, Komsomol'skaya Pravda, 20 Apr 51

The Krasnodar Measuring Instruments Plant, working under the direction of Nikolay Martynenko, leading designer, has developed a recording device which will be used in determining the most efficient operating methods for walking excavators.

OFFER INSTRUMENTS FOR SALE -- Moscow, Vechernyaya Moskva, 23 Mar 51

The Moscow Store of the Main Administration of Sales, Ministry of Machine and Instrument Building, has the following items for sale: medical scales and

- 3 -

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scales for weighing grain; devices for checking transformers; electrical measuring instruments; crucible furnaces; devices for igniting petroleum products; microscopes; clocks and watches; type, and other parts for typewriters. -- Advertisement

TEST MEASURING INSTRUMENTS TO INSURE ACCURACY -- Riga, Sovetskaya Latvija, 24 Jun 51

The Administration of Measures and Measuring Instruments under the Council of Ministers Latvian SSR tests the measuring instruments of scientific research organizations and industrial enterprises to insure republic-wide accuracy. Over 100 different kinds of instruments are tested, including goniometers, rulers, ammeters, manometers, and microscopes.

TURN OUT ELEMENTS FOR QUARTZ CLOCKS -- Petrozavodsk, Leninskoye Znamya, 13 Jul 51

The Kharkov State Institute of Measures and Measuring Instruments is manufacturing piezoelectric elements, used in the so-called quartz clocks. These clocks exceed all other types in accuracy. Scientists of the institute are now developing a quartz clock for use in astronomical observatories.

MANOMETERS REACH GES EARLY -- Moscow, Izvestiya, 25 Mar 51

The Tomsk Manometer Plant shipped its first two consignments of manometers to the Stalingrad GES project ahead of time

NEW EQUIPMENT, METHODS BOOST PRODUCTIVITY -- Leningradskaya Pravda, 10 Apr 51

The Leningrad Lengazapparat Plant No 1 puts out gas clocks [sic] for use in laboratory research; gas meters, and other items. The utilization of recently acquired equipment and the application of new methods are steadily raising the plant's productivity -- I. Kodyrov, chief engineer, Leningrad Lengazapparat Plant No 1

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- 4 -

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